

Title (en)  
WRITABLE AND ERASABLE HIGH-DENSITY OPTICAL STORAGE MEDIA

Title (de)  
BESCHREIBBARE UND LÖSCHBARE OPTISCHE AUFZEICHNUNGSMEDIEN MIT HOHER DICHT

Title (fr)  
SUPPORT OPTIQUE D'ARCHIVAGE INSCRIPTIBLE ET EFFA ABL

Publication  
**EP 0977754 B1 20080116 (EN)**

Application  
**EP 98922738 A 19980417**

Priority  
• CH 99797 A 19970429  
• EP 9802274 W 19980417

Abstract (en)  
[origin: WO9849164A1] The invention relates to an optical storage medium comprising a substrate and a storage layer, wherein the storage layer comprises a compound of formula (I) or (II) in which A and A', independently of one another, are unsubstituted or mono- or di-halo-, -hydroxy-, -C1-C6alkyl-, -C1-C6alkoxy-, -cyano- or -nitro-substituted phenyl, pyridyl, pyrrolyl, imidazolyl, furyl or thienyl, which can, if desired, be fused to a benzene ring, are halide, tetrafluoroborate or unsubstituted or with one or more halogen substituted C1-C6alkanesulfonate, benzenesulfonate, C1-C6alkylbenzenesulfonate, C1-C6alkylsulfate or di-C1-C6alkylphosphonate of N-C1-C6alkyl-pyridiniumyl, or are unsubstituted or mono- or di-hydroxy-substituted C2-C6alkyl or C2-C6alkenyl, whose chain may be uninterrupted or interrupted by one or two oxygen atoms, B and B', independently of one another, are 2H, S, S2 or SO2, and n and n', independently of one another, are each a number from 1 to 4. The invention also relates to a process for the optical writing, storage, reading, modification or erasing of data at a wavelength of from 400 to 700 nm using a novel recording medium, to an optical recorder for the optical writing, modification or erasing of data using only continuous laser radiation or only modulated laser radiation, to a process for converting a compound of formula (I) or (II) from a black form into a red form by mechanical force, and to new compounds of formula (I) or (II).

IPC 8 full level  
**C07D 471/06** (2006.01); **C07D 495/22** (2006.01); **C09B 5/02** (2006.01); **C09B 5/62** (2006.01); **G11B 7/006** (2006.01); **G11B 7/24** (2006.01); **G11B 7/244** (2006.01); **G11B 7/0045** (2006.01); **G11B 7/005** (2006.01); **G11B 7/0055** (2006.01)

CPC (source: EP KR US)  
**C07D 471/06** (2013.01 - EP KR US); **C07D 495/06** (2013.01 - KR); **C09B 5/62** (2013.01 - EP KR US); **G11B 7/00455** (2013.01 - KR); **G11B 7/0052** (2013.01 - KR); **G11B 7/00552** (2013.01 - KR); **G11B 7/006** (2013.01 - EP US); **G11B 7/244** (2013.01 - EP KR US); **G11B 7/00455** (2013.01 - EP US); **G11B 7/0052** (2013.01 - EP US); **G11B 7/00552** (2013.01 - EP US); **Y10S 428/913** (2013.01 - EP KR US); **Y10S 430/146** (2013.01 - EP KR US); **Y10T 428/21** (2015.01 - EP US)

Designated contracting state (EPC)  
CH DE FR GB IT LI

DOCDB simple family (publication)  
**WO 9849164 A1 19981105**; AU 7527098 A 19981124; CN 1252802 A 20000510; DE 69839010 D1 20080306; DE 69839010 T2 20090102; EP 0977754 A1 20000209; EP 0977754 B1 20080116; JP 2002501497 A 20020115; KR 100534193 B1 20051208; KR 20010020421 A 20010315; TW 526486 B 20030401; US 6245403 B1 20010612

DOCDB simple family (application)  
**EP 9802274 W 19980417**; AU 7527098 A 19980417; CN 98804413 A 19980417; DE 69839010 T 19980417; EP 98922738 A 19980417; JP 54654798 A 19980417; KR 19997010045 A 19991029; TW 87106418 A 19980427; US 6926698 A 19980429